



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,342	01/14/2004	Chih Min Lin	010121-9745-00	3481
23409	7590	02/07/2005	EXAMINER	
MICHAEL BEST & FRIEDRICH, LLP 100 E WISCONSIN AVENUE MILWAUKEE, WI 53202			MULLINS, BURTON S	
			ART UNIT	PAPER NUMBER
			2834	

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/757,342

Applicant(s)

LIN, CHIH MIN

Examiner

Burton S. Mullins

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1, 7 and 8 is/are rejected.
- 7) ☒ Claim(s) 2-6 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 27 April 2004 has been considered by the examiner.

Claim Objections

2. Claim 8 is objected to because of the following informalities: Change “contracts” to – contacts--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spedale et al. (US 6,710,271) in view of Bloser (US 2,858,392). Spedale teaches a centrifugal switch for a motor (not shown, c.3, lines 30-45), the motor having a housing with an end (inherent to the motor disclosed in c.3, lines 30-45); a motor shaft (not shown, c.4, line 1) having an end adjacent said motor housing end (see Fig.1); means for rotatably mounting said motor shaft in said motor housing (i.e., bearings, inherent to a motor with a shaft), the orientation shaft defining a motor shaft axis direction (inherent); an opening in said motor

housing that provides access to said motor shaft end from outside said motor housing (inherent); a module housing 12 having an end (not numbered, Fig.1); a module shaft 40 having an end 42 adjacent said module housing end (Fig.1); means for rotatably mounting said module shaft in said module housing in said shaft axis direction (i.e., bearing 46, c.4, lines 2-5); an opening 44 in said module housing 12 that provides access to said module shaft end 42 from outside said module housing (Fig.1), means for mounting said module housing end on said motor housing end (not numbered, holes on either side of housing 12, Fig.1); means for drivingly connecting said module shaft end 42 to said motor shaft end (connector not shown, c.3, line 67-c.4, line 2); means for preventing said module housing from rotating relative to said motor housing (inherent to means for mounting the housings together, Fig.1), said module shaft end and said motor shaft end being located relative to their respective housings so that they can be drivingly connected to each other without the module housing and the motor housing interfering with the connection (inherent to the location of the shaft ends relative to their respective housings, Fig.1).

Spedale differs in that the holes shown in Fig.1 for mounting the module to the motor does not explicitly include “means for slidably attaching for shaft axis direction movement relative to each other said module housing and said motor housing”.

Bloser teaches a means for mounting a module (comprising an electromagnetic device for controlling motor speed) to a motor 10 using plural stud bolts 31 extending from the motor and connecting to ring member 30 and support plate 50 of the module (Fig.1, c.2, lines 28-35 and 56-61). The bolts provide support for the module relative to the motor (c.2, lines 27-30). Furthermore, it is apparent that the module slides in the direction of the motor shaft 14

Art Unit: 2834

(axially) onto the bolts since Bloser describes springs 33 which provide a slight degree of axial motion of the ring 30 on the bolts 31 (Fig.1, c.2, lines 29-31).

It would have been obvious to one having ordinary skill in the art at the time of the invention to provide Spedale with a means for axially, slidably attaching a module to a motor such as the bolts taught by Bloser since they would have provided support for the module relative to the motor.

Regarding claim 7, note Spedale Fig.1 which shows a spring housing (on top of mechanical components chamber 16) and a central governor including a spring 30 and two L-shaped governor or "swing" arms 70 and 90.

Regarding claim 8, note Spedale Figs.1-2 which show operation of the snap-switch comprising contacts 22 and 28.

Allowable Subject Matter

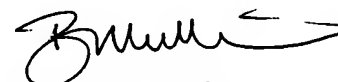
5. Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not teach the subject matter directed to the means for drivingly connecting the module shaft end to the motor shaft end, i.e., keyed or threaded shaft ends with respective mating keyed or threaded opening in the other shaft ends (claims 2 and 4).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 571-272-2029. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Burton S. Mullins
Primary Examiner
Art Unit 2834

bsm
27 January 2005